TRANSMITT	TAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))	Docket No. 13273
In Re Application	Of: Yutaka Yokoyama DEC 1 8 2001	
Serial No	. Filing Date Examiner	Group Art Unit
09/467,81	December 20, 1999 December 20, 1999 Unassigned	2713
Title:		
APPARATUS F	OR AND METHOD OF VARIABLE BIT RATE VIDEO CODING	RECEIVED DEC 2 1 2001 Technology Center
	Address to: Assistant Commissioner for Patents Washington, D.C. 20231	RECEIVED DEC 2 1 2001 Technology Center 2600
	37 CFR 1.97(b)	8
of a nat CFR 1.4	ormation Disclosure Statement submitted herewith is being filed with ional application; within three months of the date of entry of the national application; or before the mailing date of whichever event occurs last.	tional stage as set forth in 37
	37 CFR 1.97(c)	
of a nat internati	ormation Disclosure Statement submitted herewith is being filed a ional application, or the date of entry of the national stage as set onal application; or after the mailing date of a first Office Actid last but before the mailing date of either:	forth in 37 CFR 1.491 in an
·	1. a Final Action under 37 CFR 1.113, or	
	2. a Notice of Allowance under 37 CFR 1.311,	
	whichever occurs first.	
Also sub	omitted herewith is:	,
a	certification as specified in 37 CFR 1.97(e);	
	OR	
	ne fee set forth in 37 CFR 1.17(p) for submission of an Information	ition Disclosure Statement
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	INFORMATION DISCLO nder 37 CFR 1.97(b) or 1.97	'	Docket No. 13273
In Re Application Of: Y	Tutaka Yokoyama	PUSSIS	
Serial No.	Filing Date	Examiner	Group Art Unit
09/467,812	December 20, 1999	Unassigned	2713
	· PA	DEMARK	·
Title: APPARATUS FOR AND	METHOD OF VARIABLE BIT	RATE VIDEO CODING	RECEIVED DEC 2 2001 Technology Center 2600
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deposit account is bein States Patent and Trade) on(Date)	Signature	on November 5, 2001 first class mail under 37 C.F Assistant Commissioner for 20231. Signature of Person Michel	ent and fee is being deposited with the U.S. Postal Service as F.R. 1.8 and is addressed to the or Patents, Washington, D.C. Mailing Correspondence
Typed or Printed I	Name of Person Signing Certificate	Typed or Printed Name of I	Person Mailing Correspondence
*This certificate may deposit account.	only be used if paying by	· .	
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Si	gnature	•	• •
Paul J. Esatto, Jr.		. '	
Registration No. 30,749	NIN/ O DDECCED	•	
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Translator's Report/Comments

Your ref:

G1589 (13273)

Your order of (date):

In translating the above text we have noted the following apparent errors/unclear passages which we have corrected or amended:

Parag 1/line 2 "Code quantity distribution" - this is a literal rendering of the Japanese, although we suspect "quantization" may be meant. According to our references the term quantization is usually rendered differently in Japanese.

^{*} This identification refers to the source text. Please note that the first paragraph is taken to be, where relevant, the end portion of a paragraph starting on the preceding page. Where the paragraph is stated, the line number relates to the particular paragraph. Where no paragraph is stated, the line number refers to the page margin line number.

UNITED STATES PATENT AND TRADEMARK OFFICE

VERIFICATION OF A TRANSLATION

I, the below named translator, hereby declare that:

My name and post office address are as stated below;

That I am knowledgeable in the English language and in the Japanese language, and that I

believe the English translation of the marked portion of the attached Japanese document is

true and complete.

I hereby declare that all statements made herein of my own knowledge are true and that all

statements made on information and belief are believed to be true; and further that these

statements were made with the knowledge that willful false statements and the like so made

are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United

States Code and that such willful false statements may jeopardize the validity of the

application or any patent issued thereon.

Date: October 11, 2001

Full name of the translator:

Nigel David CROSSAN

Signature of translator:

Nogers. Corre

For and on behalf of RWS Group plc

Post Office Address:

Europa House, Marsham Way, Gerrards Cross, Buckinghamshire,

England.

The applicants have made assertions in a written opinion:

"As mentioned in the previous "written opinion" (submitted on May 14, 2001), as large code quantities are assigned to images with a high degree of encoding difficulty and small code quantities are assigned to images with a low degree of encoding difficulty, during code quantity distribution based on an average degree of difficulty, excessively allocated code is barely suppressed when images with a low degree of encoding difficulty are input directly after there has been a succession of images with a high degree of encoding difficulty, and the image quality is degraded.

With this in mind, in the invention according to the the deletion of excessively application, allocated code is controlled also using the degree of directly preceding image units by complexity of employing a degree of encoding difficulty vicinity of the encoding times. In other words, in the encoder etc. according to the present invention, degree of difficulty of encoding is measured on the basis of encoded images, and, on the basis of degree of difficulty of the encoding of those images whose encoding has been completed, the degree difficulty of encoding of images which are to be input

from there onwards is inferred and the allocation of code quantities is carried out on the basis of these degrees of difficulty.

More specifically, as disclosed in paragraphs [0088] to [0090] of the specification according to the present application, the degree of complexity of the GOP (Group of Picture) units, is calculated on the basis of the results of the encoding and this is taken as the degree of complexity for the next GOP code allocation. In this update processing of the degree of complexity, the degree of complexity of the directly preceding GOP is taken as an assumed value without further processing (the code quantity allocation is carried out using the degree of complexity of the directly preceding image unit)."

The configuration corresponding to the above is not disclosed in all of the claims, for example it cannot be understood from claim 1 that the objects which are encoded within a set quantization range are images which are to be input from there onwards.

We would like the assertions of the written opinion to be based on what is disclosed in the claims.

Controlling the quantization range of the next frame

using the frame information of the previous frame is disclosed in cited documents 1-4. If the commonality of the quantization control problem is considered, it is possible to use the configuration(s) of cited documents 5-7.

List of cited documents, etc.

- 1. Japanese Laid-open Patent Application H10-215460
- 2. Japanese Laid-open Patent Application H10-155152
- 3. Japanese Laid-open Patent Application H10-23433
- 4. Japanese Laid-open Patent Application H10-164588